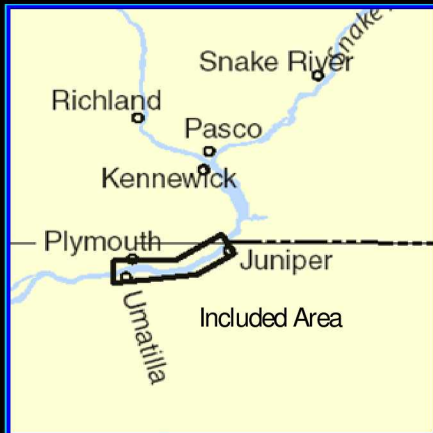


BookletChartTM

Columbia River – McNary Dam to

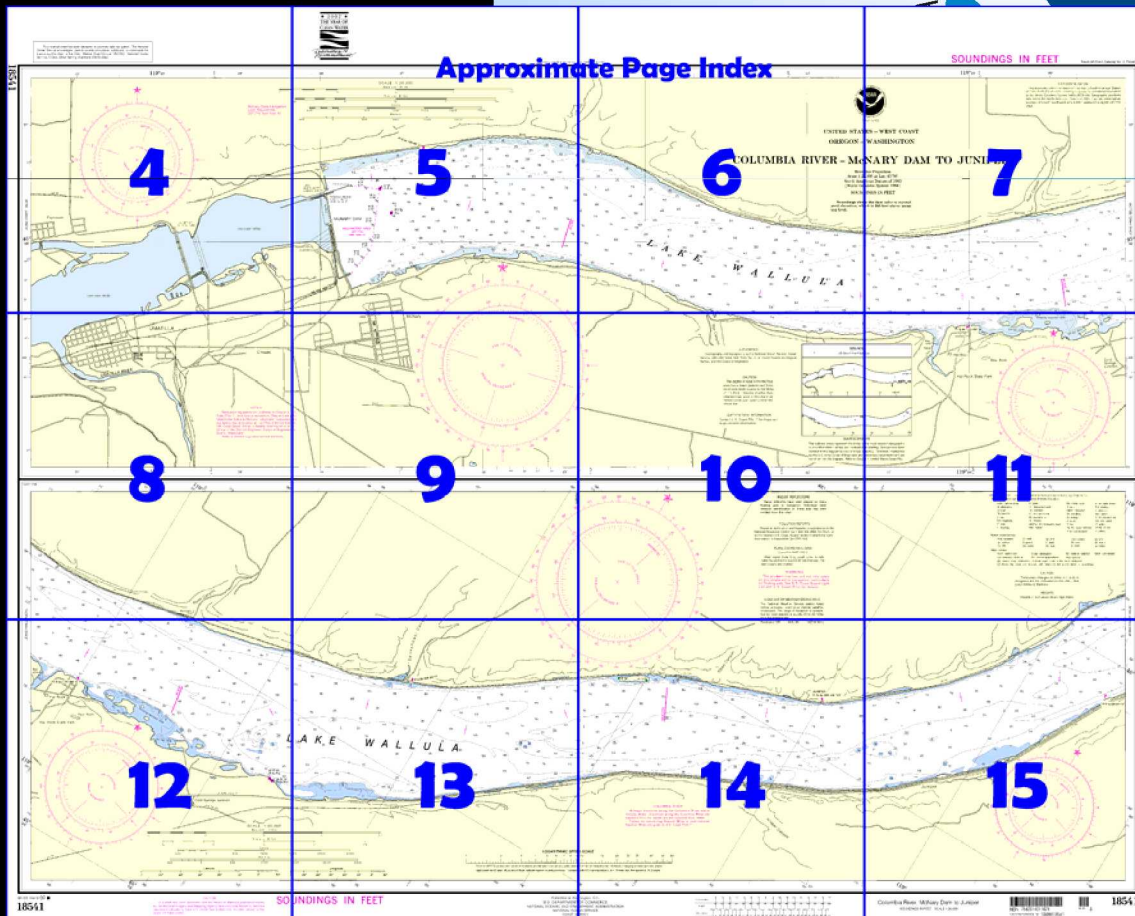
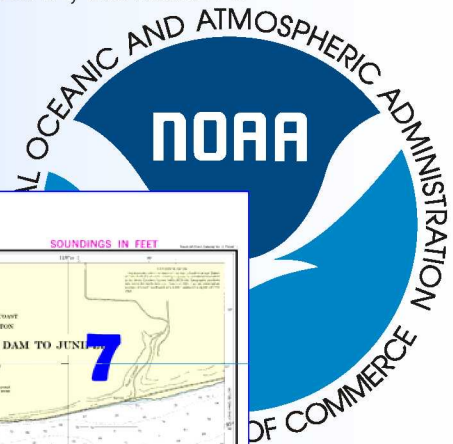
Juniper

(NOAA Chart 18541)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ✓ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ✓ Convenient size
- ✓ Up to date with all Notices to Mariners
- ✓ United States Coast Pilot excerpts
- ✓ Compiled by NOAA, the nation's chartmaker.



Home Edition (not for sale)



What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

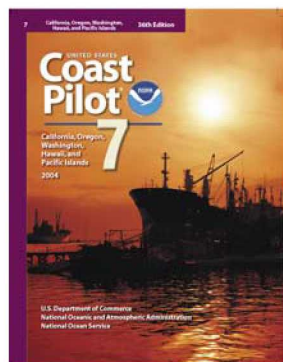
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 7, Chapter 10 excerpts]

(404) **Umatilla** is on the Oregon side 62 (71.3) miles above the John Day Dam.

(405) There is a small-craft basin about 500 yards W of the highway bridge. The E side of the entrance is marked by a light. About 125 covered and uncovered berths, electricity, gasoline, diesel fuel, water, and ice are available. A concrete launching ramp is at the basin.

(406) The fixed parallel highway bridges across the river, 63 (72.5) miles above the John Day Dam near Umatilla, each has

two navigational spans with a least clearance of 71 feet. The N openings are generally used during high water because there is less current, but during low water it is unsafe. The power cables E of the fixed parallel highway bridges have a least clearance of 82 feet.

(407) **McNary Lock** and Dam, 254.5 (292.9) miles above the mouth of the Columbia River and just above Umatilla, has a single lift lock with a vertical lift of about 75 feet. A **restricted area** is above the dam. Depths and overhead clearances are at **normal pool level**.

(408) **Lake Wallula**, the pool created by McNary Dam, provides slack-water navigation from McNary Dam to the junction with the **Yakima River**, a distance of about 37(43) miles. Depths in the lake are generally deep, however, there are several isolated shallow spots and rocky areas along the length of the lake. The channel through the lake is marked by aids to navigation from the Walla Walla River to Richland, 40 (46) miles above McNary Dam.

(409) The **Port of Umatilla**, on the Oregon side, about 0.4 mile above the McNary Lock and Dam, has a 218-foot port wharf with 918 feet of berthing space with dolphins; reported depths of 20 feet are available alongside. A grain elevator with a loading rate of 16,000 bushels per hour is just E of the port wharf, and a barge wharf, used for receipt of petroleum products, is just E of the elevator. The grain elevator is operated by the Pendleton Grain Growers Association, the oil wharf by the Tidewater Oil Co., and the port wharf by the Port of Umatilla.

(410) **Hat Rock State Park**, State Park, Hat Rock 18541 on the S side about 5.5 (6.3) miles above McNary Dam, has a public launching ramp and offers excellent protection for small craft. Gasoline is available here.

Table of Selected Chart Notes

HEIGHTS

Heights in feet above Mean High Water.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

Mercator Projection
Scale 1:20,000 at Lat. 45°56'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET

NOAA VHF-FM WEATHER BROADCASTS

The National Weather Service station listed below provides continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Pendleton, OR	WXL-95	162.55 MHz
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PLANE COORDINATE GRID

(based on NAD 1927)

Washington State Grid, south zone, is indicated by dashed ticks at 5000 foot intervals. The last 3 digits are omitted.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, Washington or at the Office of the District Engineer, Corps of Engineers in Seattle, Washington.

Refer to charted regulation section numbers.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

COLUMBIA RIVER

Mileage distances along the Columbia River are in Statute Miles. Distances along the Columbia River are eastward from the mouth and are indicated thus: ———

Tables for converting Statute Miles to International Nautical Miles are given in U.S. Coast Pilot 7.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83) which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.524" southward and 4.045" westward to agree with this chart.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

AUTHORITIES

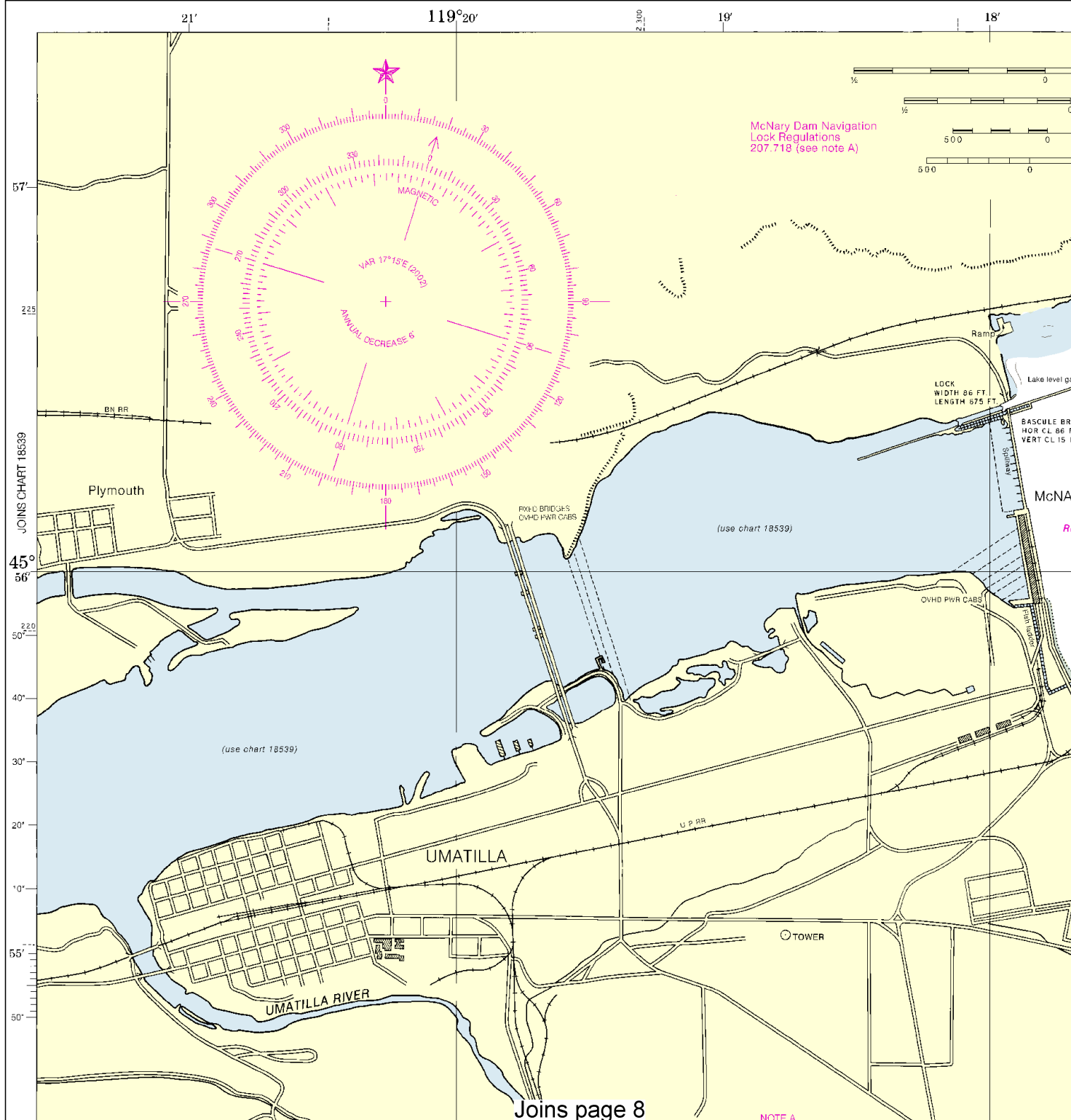
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the U. S. Coast Guard, Geological Survey, and the Corps of Engineers.

CAUTION

This chart has been corrected from the Notice to Mariners published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

18541

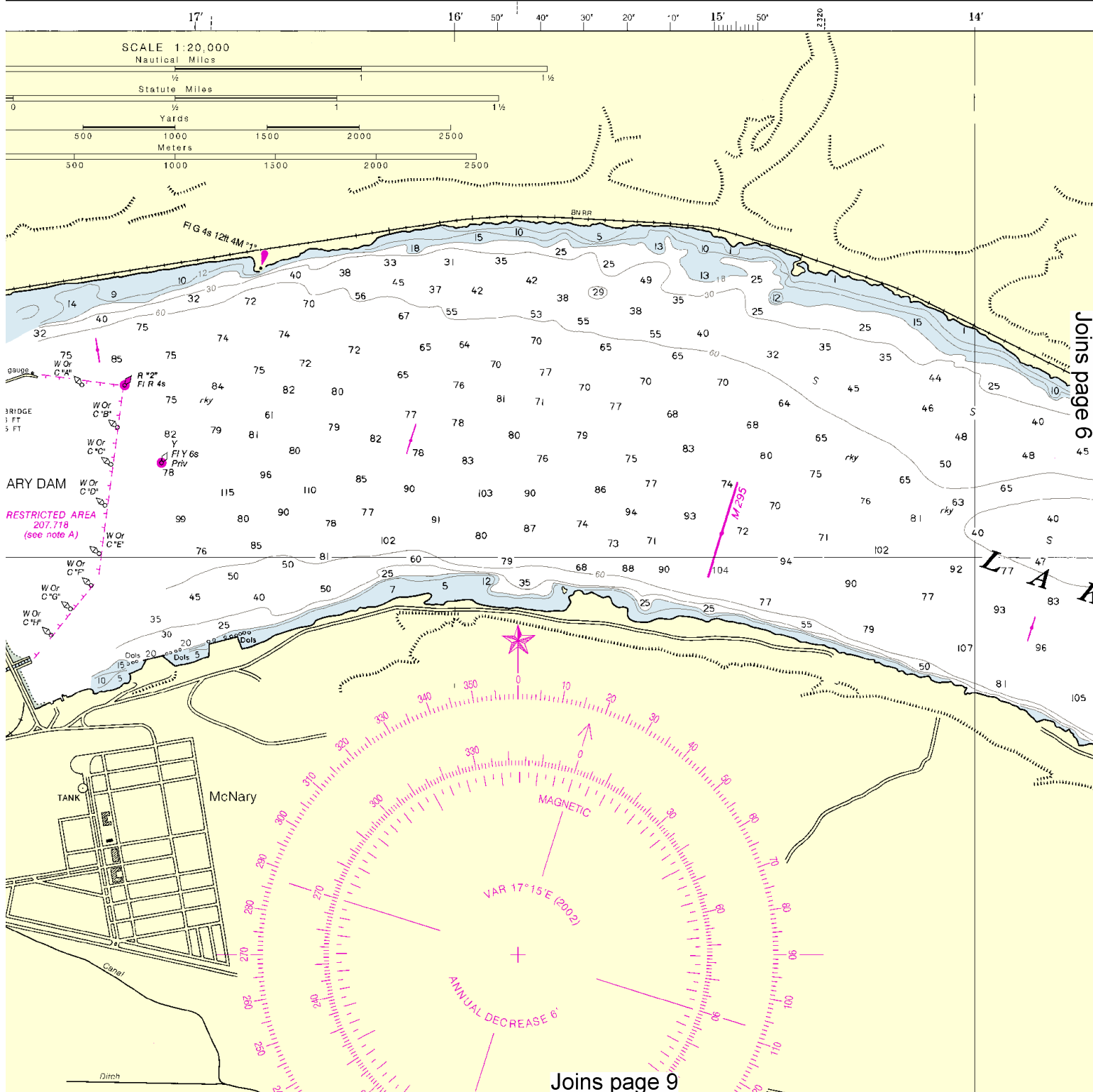


~~SCALE 1:20,000~~
Nautical Miles

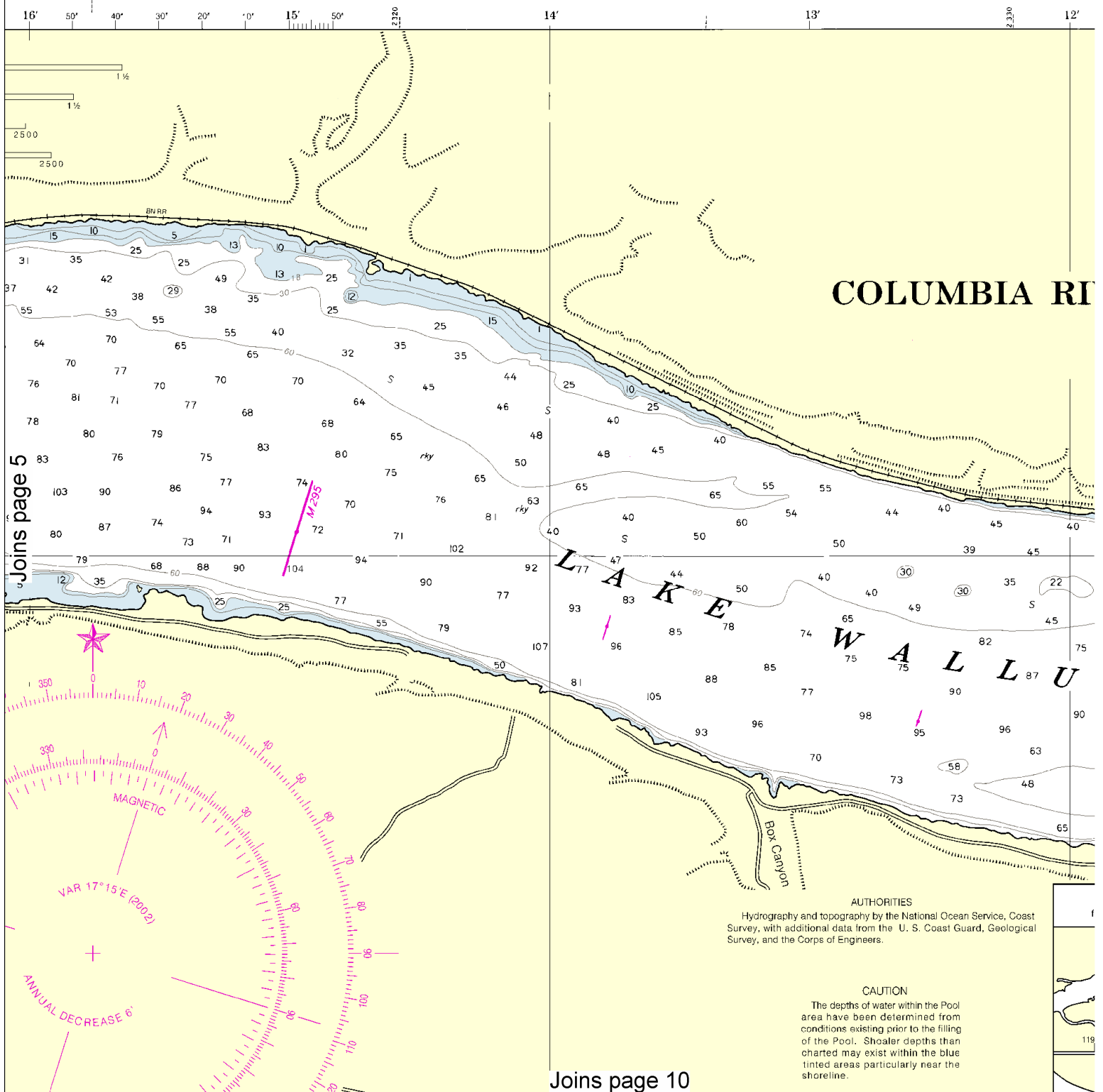
See Note on page 5.



Formerly C&GS 8163, 1st Ed., Apr. 1960 KAPP 1767



This BookletChart was reduced to 75% of the original chart scale.
The new scale is 1:26667. Barscales have also been reduced and
are accurate when used to measure distances in this BookletChart.



SOUNDINGS IN FEET

Nautical Chart Catalog No. 2, Panel I



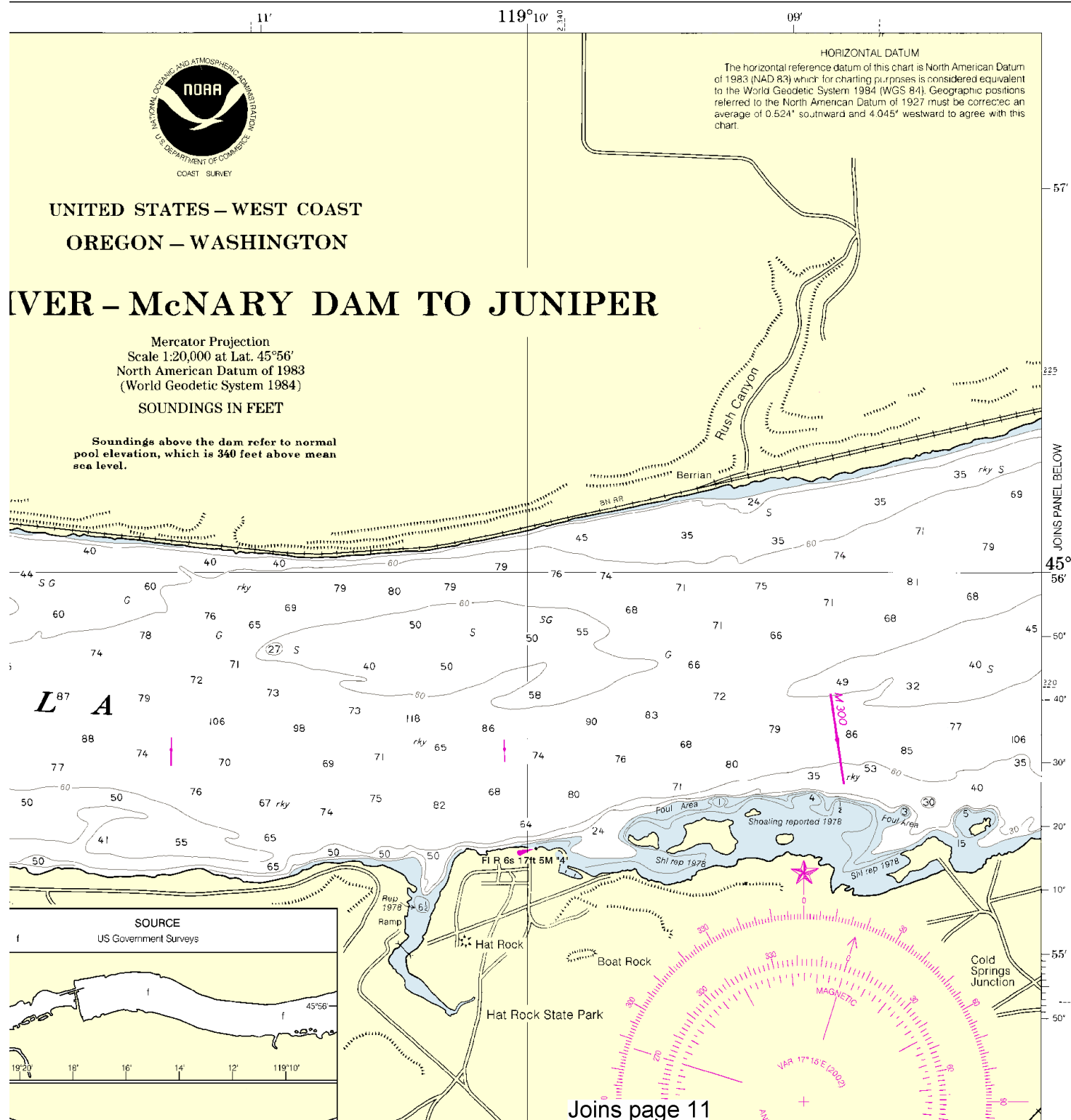
UNITED STATES – WEST COAST
OREGON – WASHINGTON

IVER – McNARY DAM TO JUNIPER

Mercator Projection
Scale 1:20,000 at Lat. 45°56'
North American Datum of 1983
(World Geodetic System 1984)

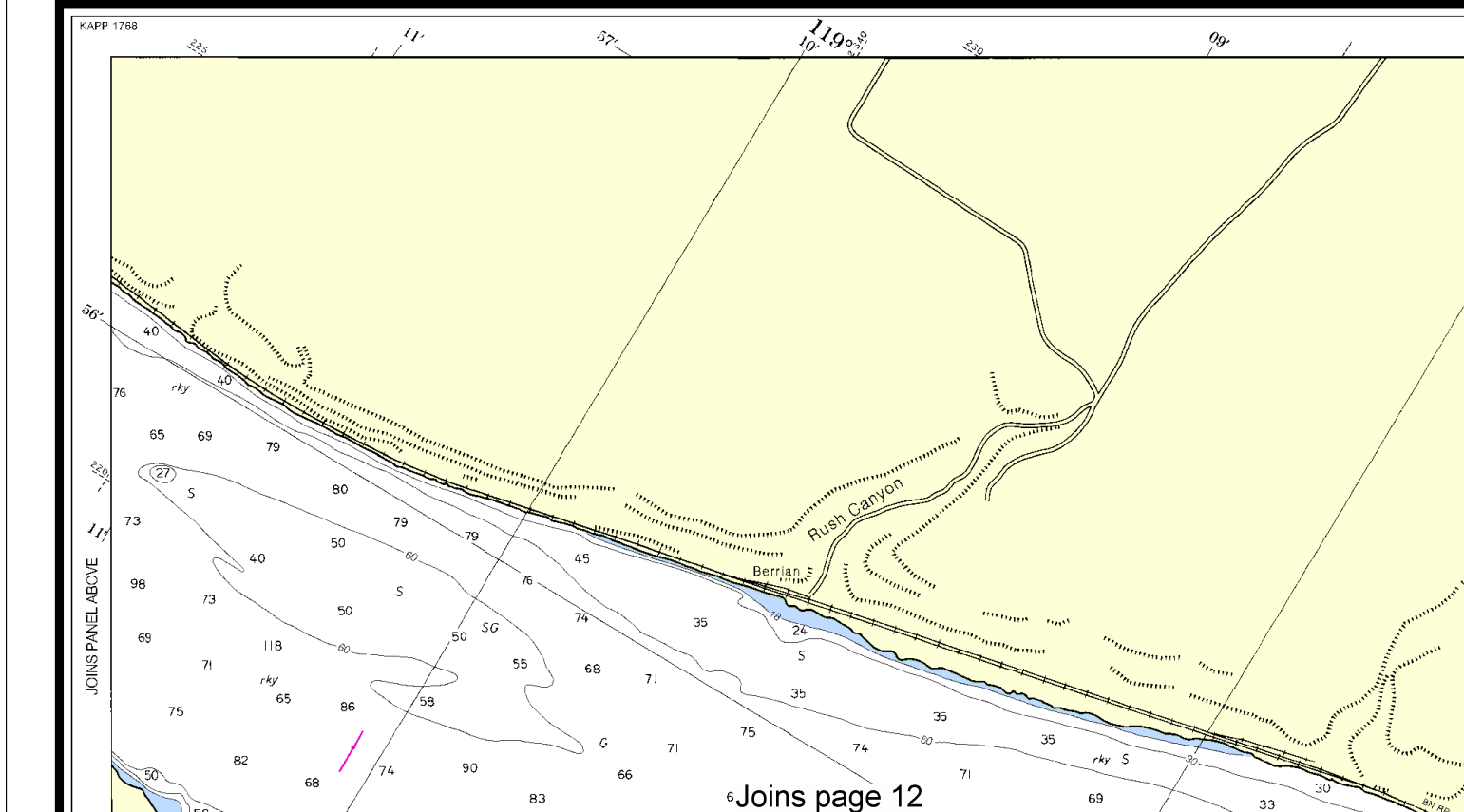
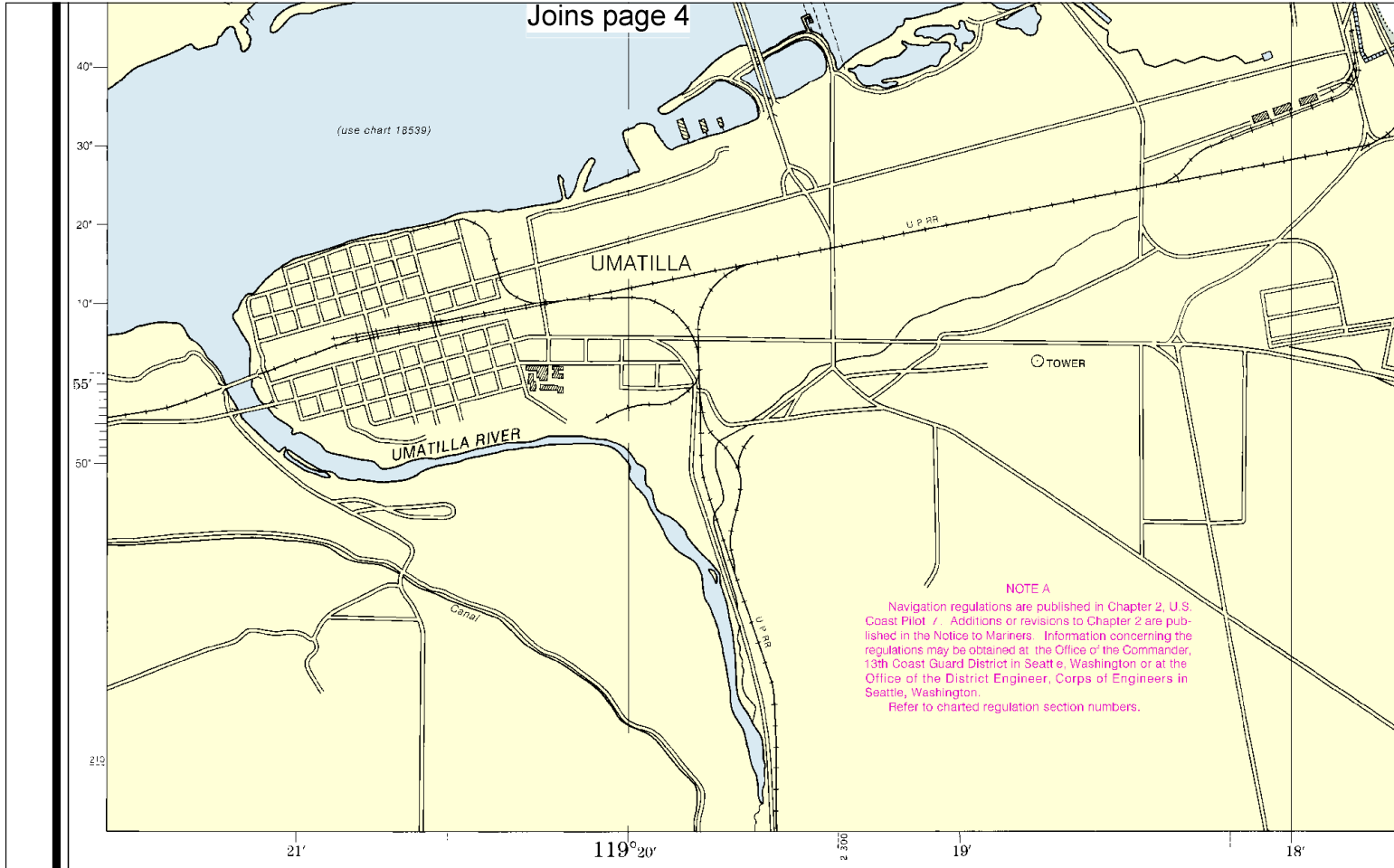
SOUNDINGS IN FEET

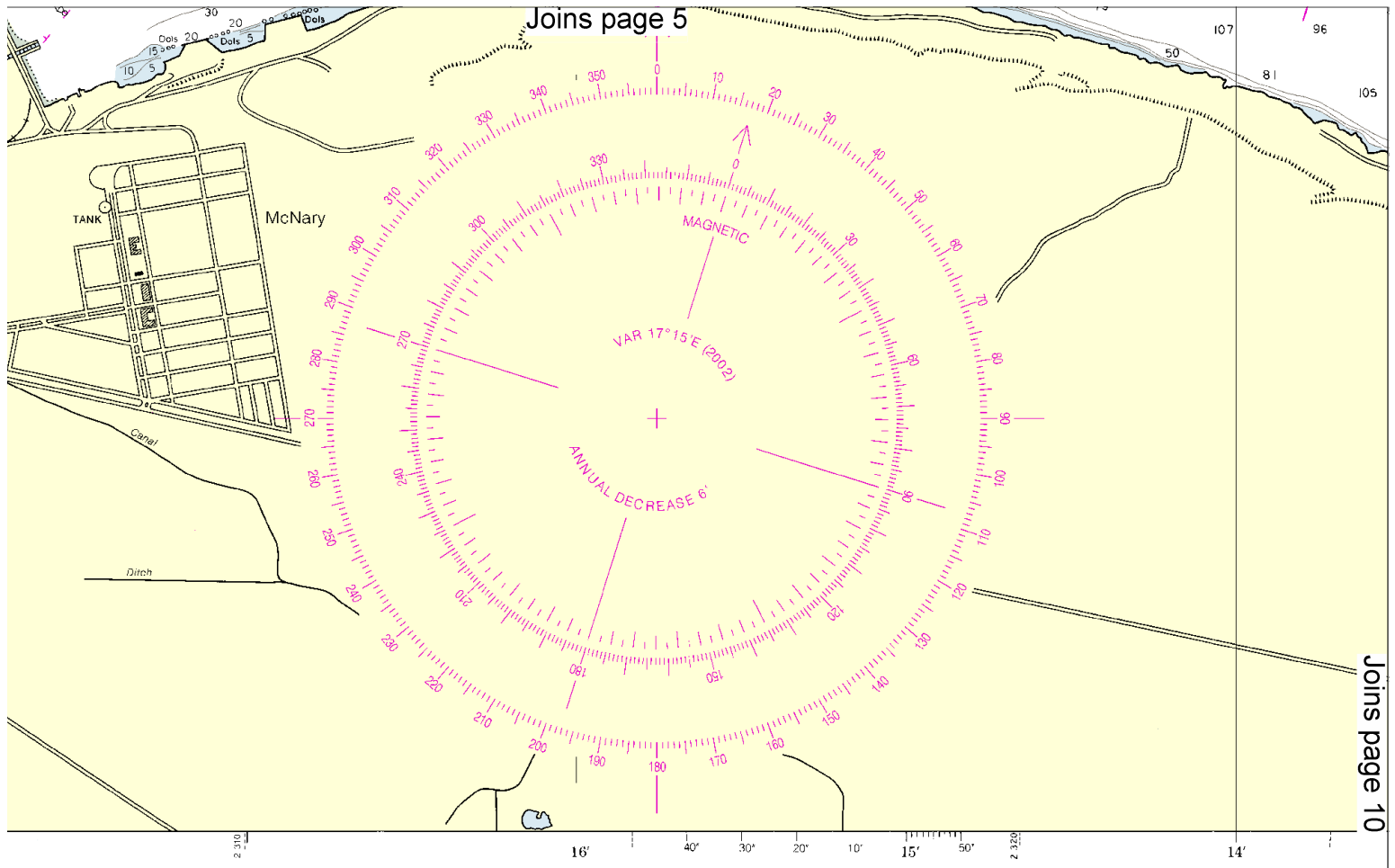
Soundings above the dam refer to normal pool elevation, which is 340 feet above mean sea level.



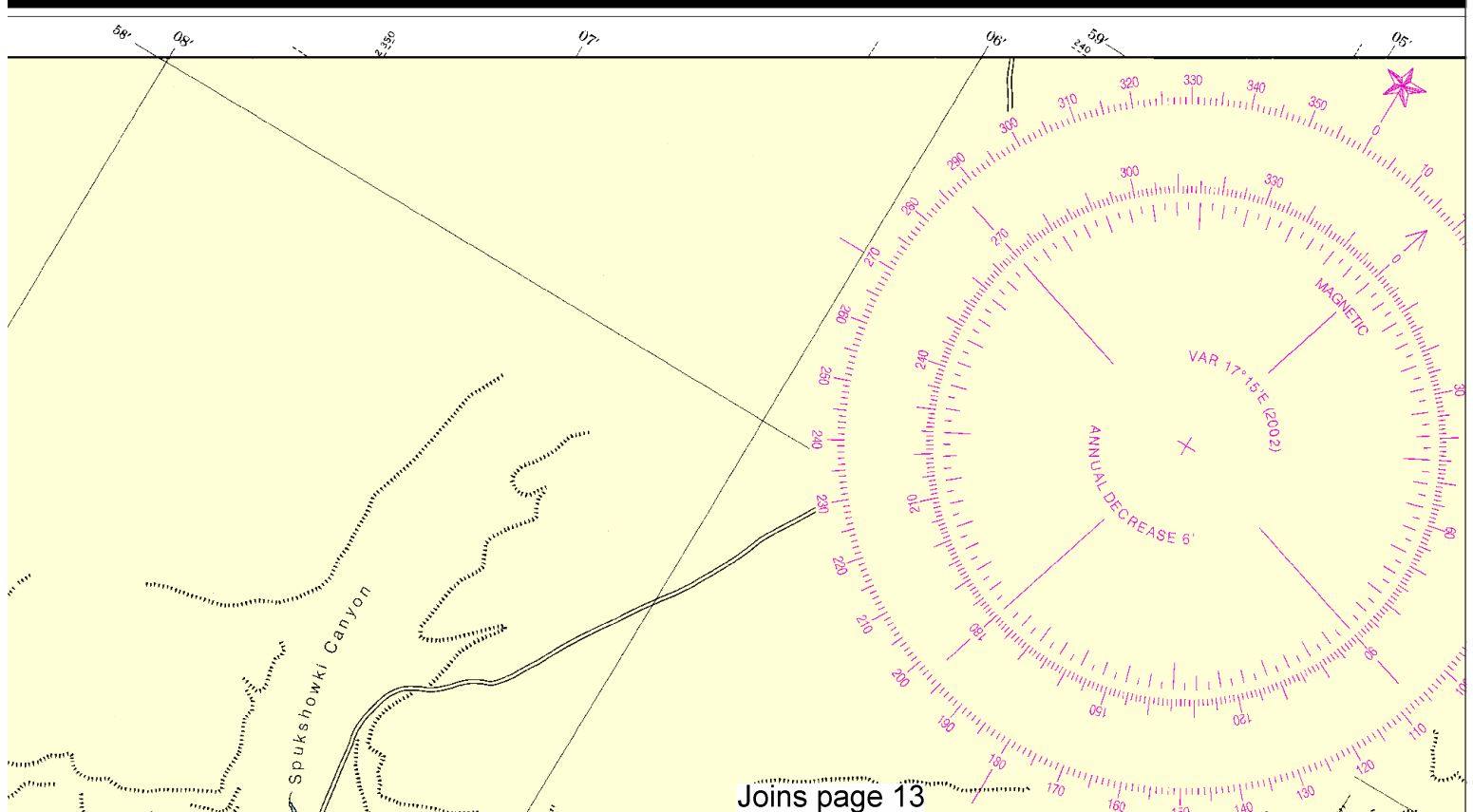
This BookletChart has been updated with: Coast Guard Local Notice To Mariners: 0710 2/16/2010,
NGA Weekly Notice to Mariners: 0910 2/27/2010,
Canadian Coast Guard Notice to Mariners: n/a .

7

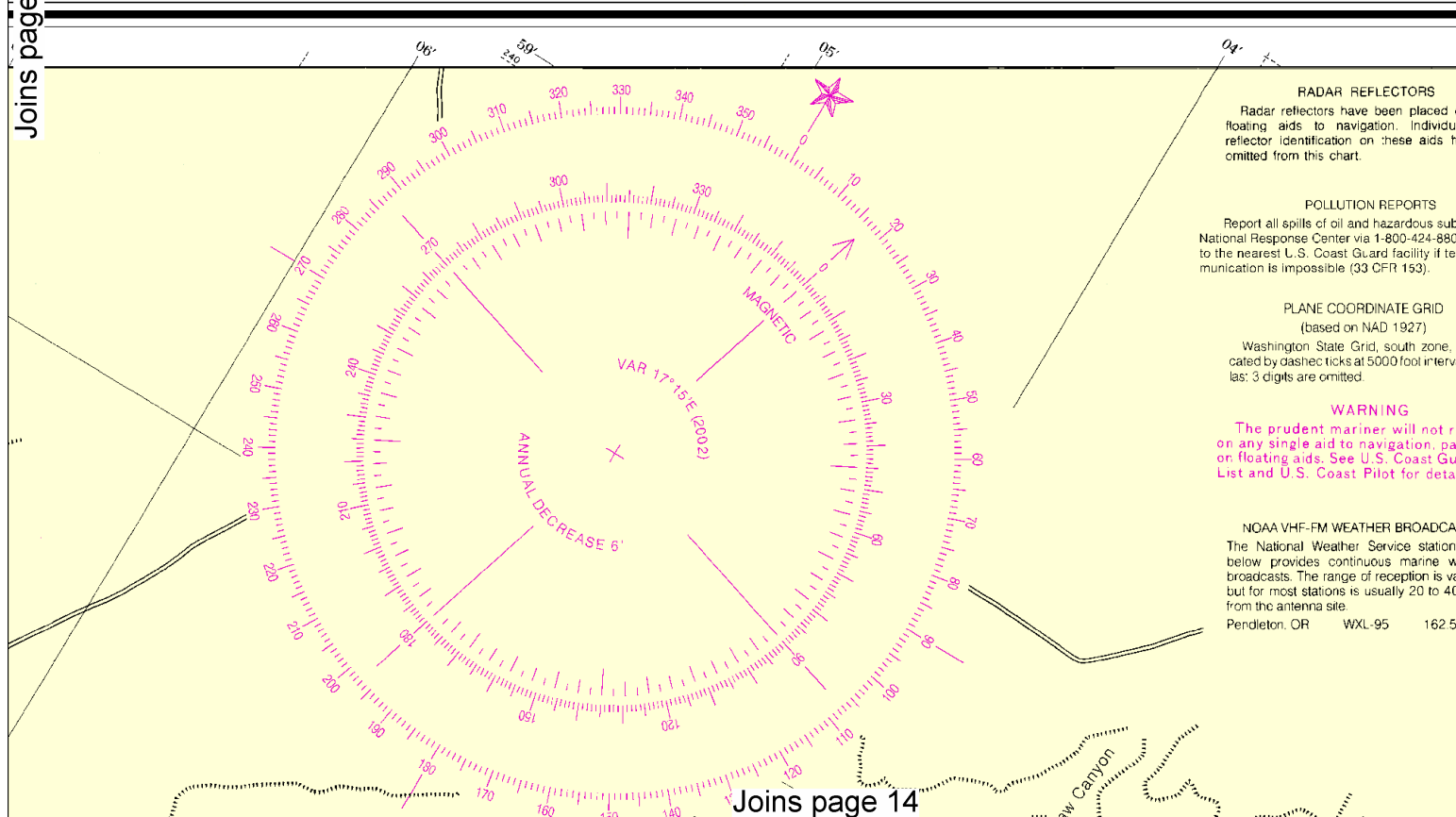
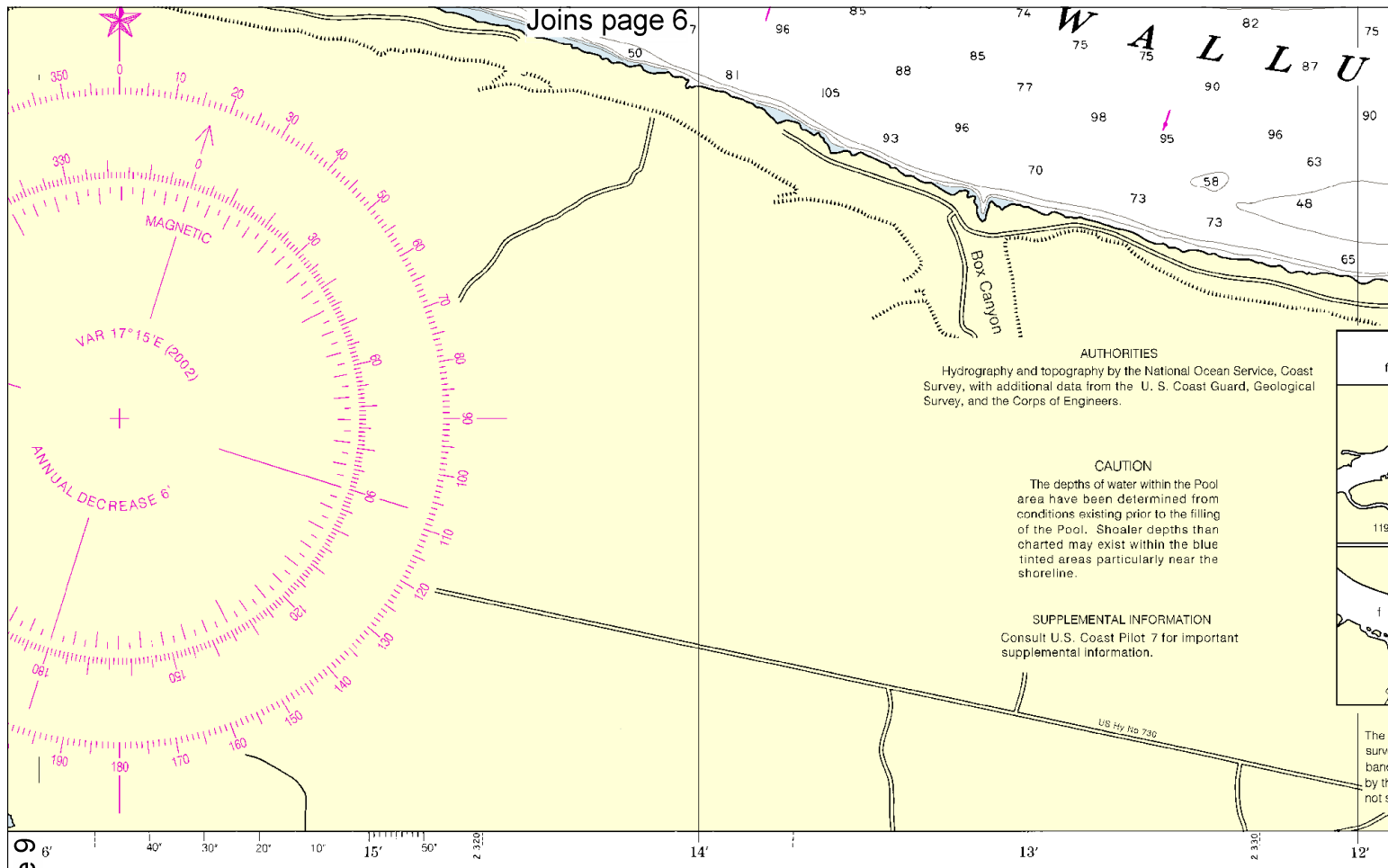




Joins page 10



Joins page 13

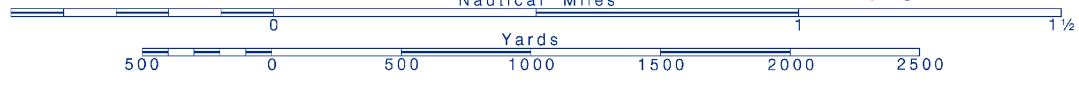


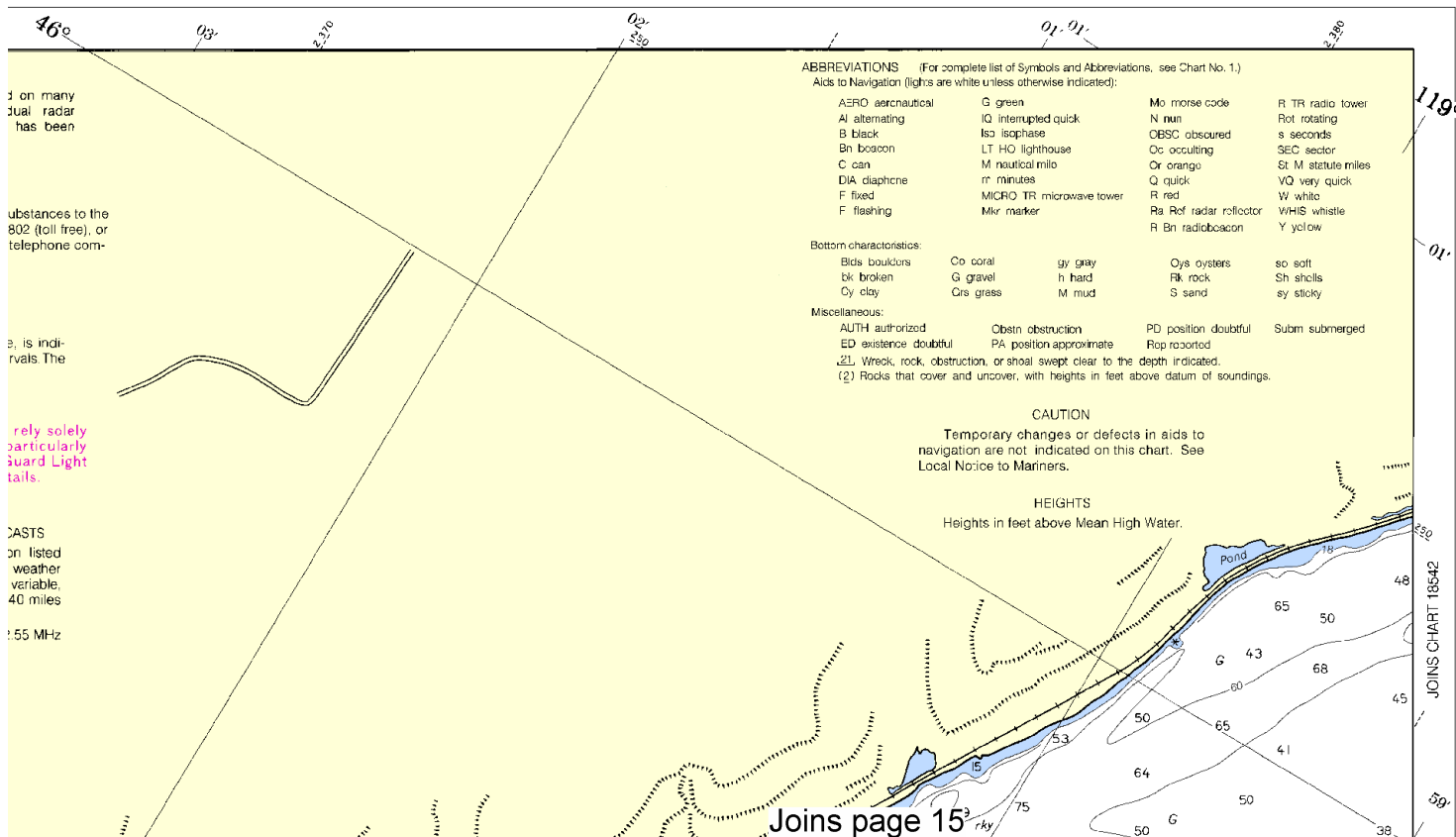
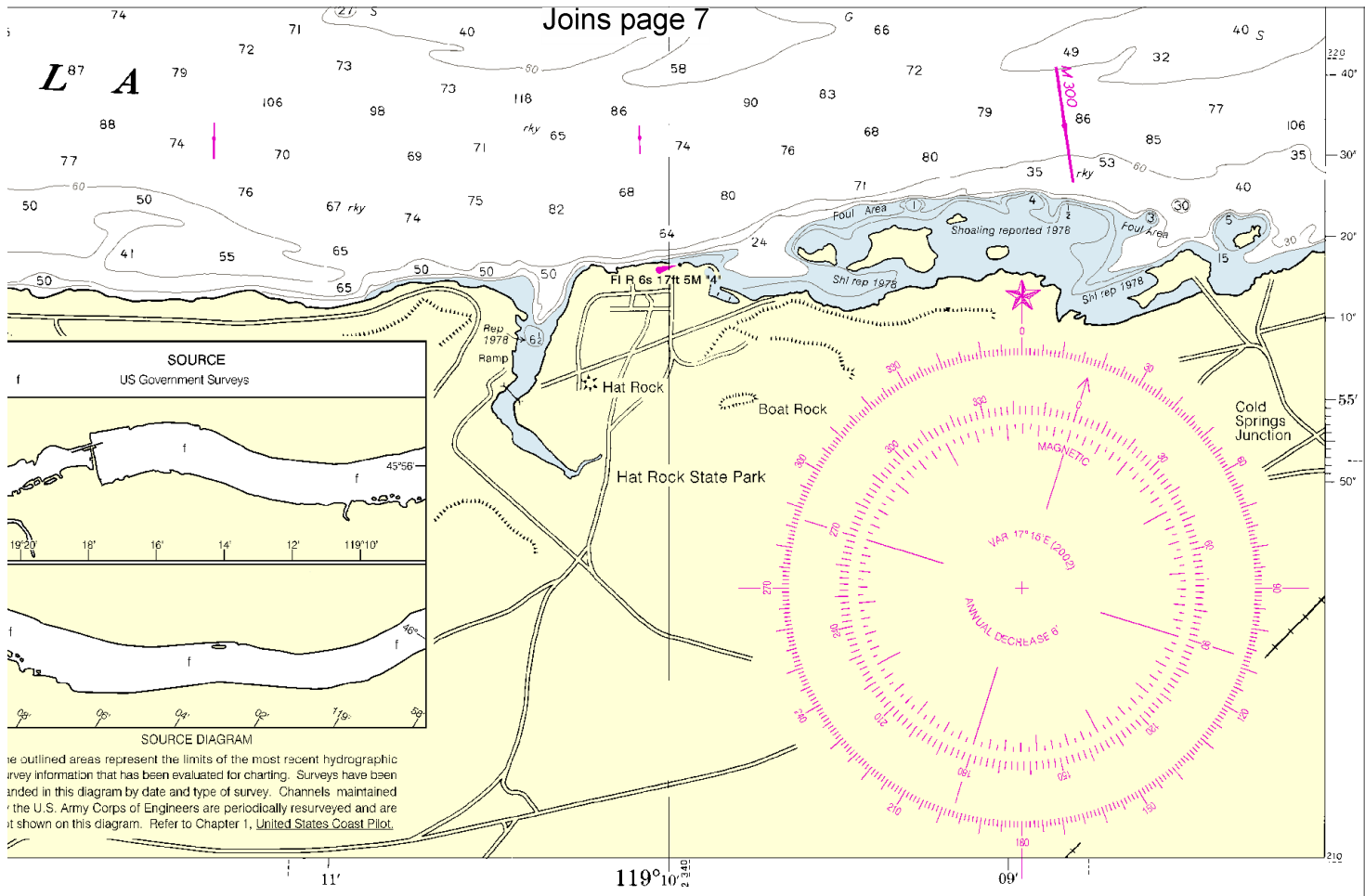
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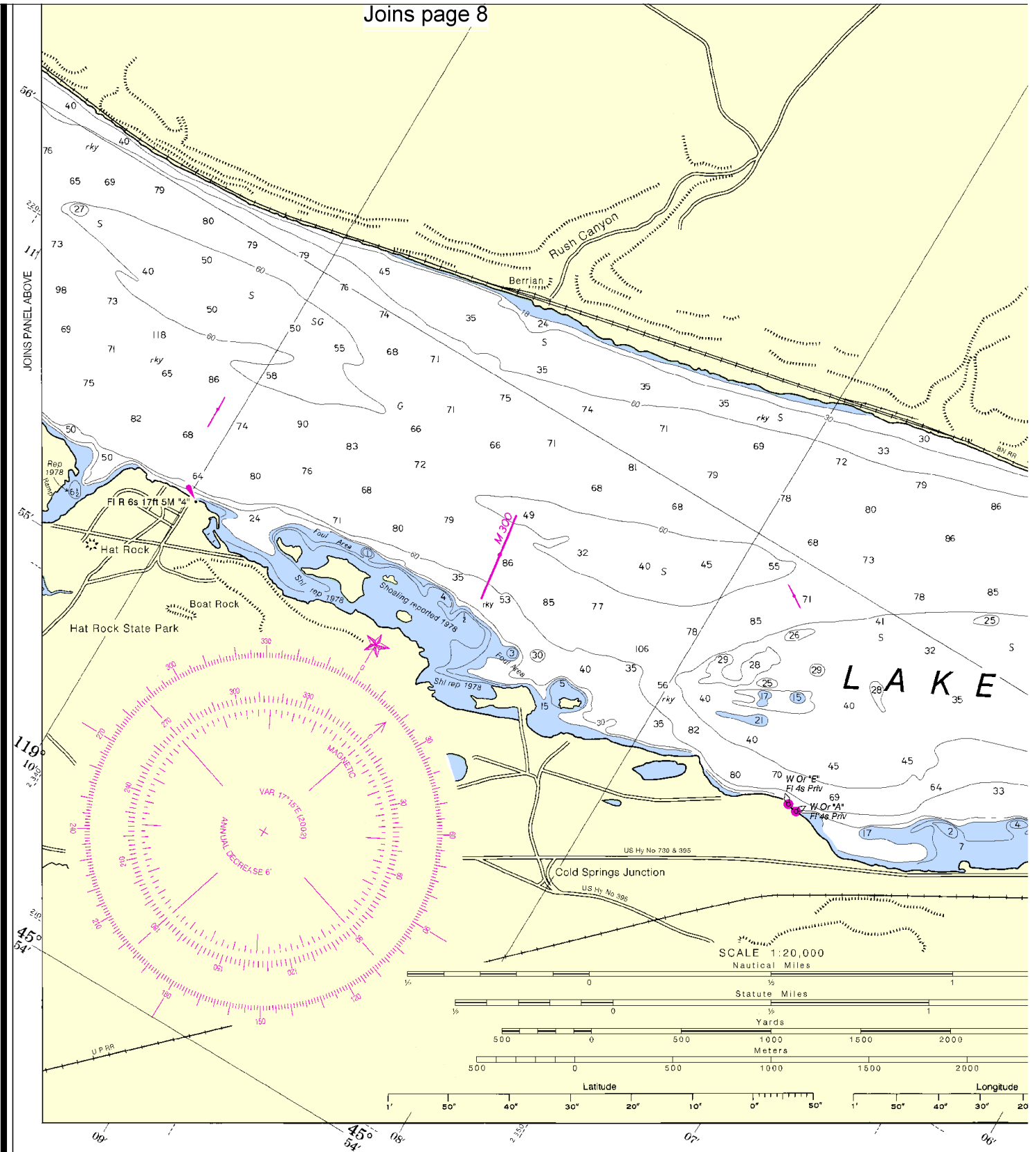
Printed at reduced scale.

SCALE 1:20,000

See Note on page 5.







8th Ed., Mar 9/02 ■

18541

CAUTION

This chart has been corrected from the Notice to Mariners published weekly by the National Imagery and Mapping Agency and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in the lower left hand corner.

SOUNDINGS I

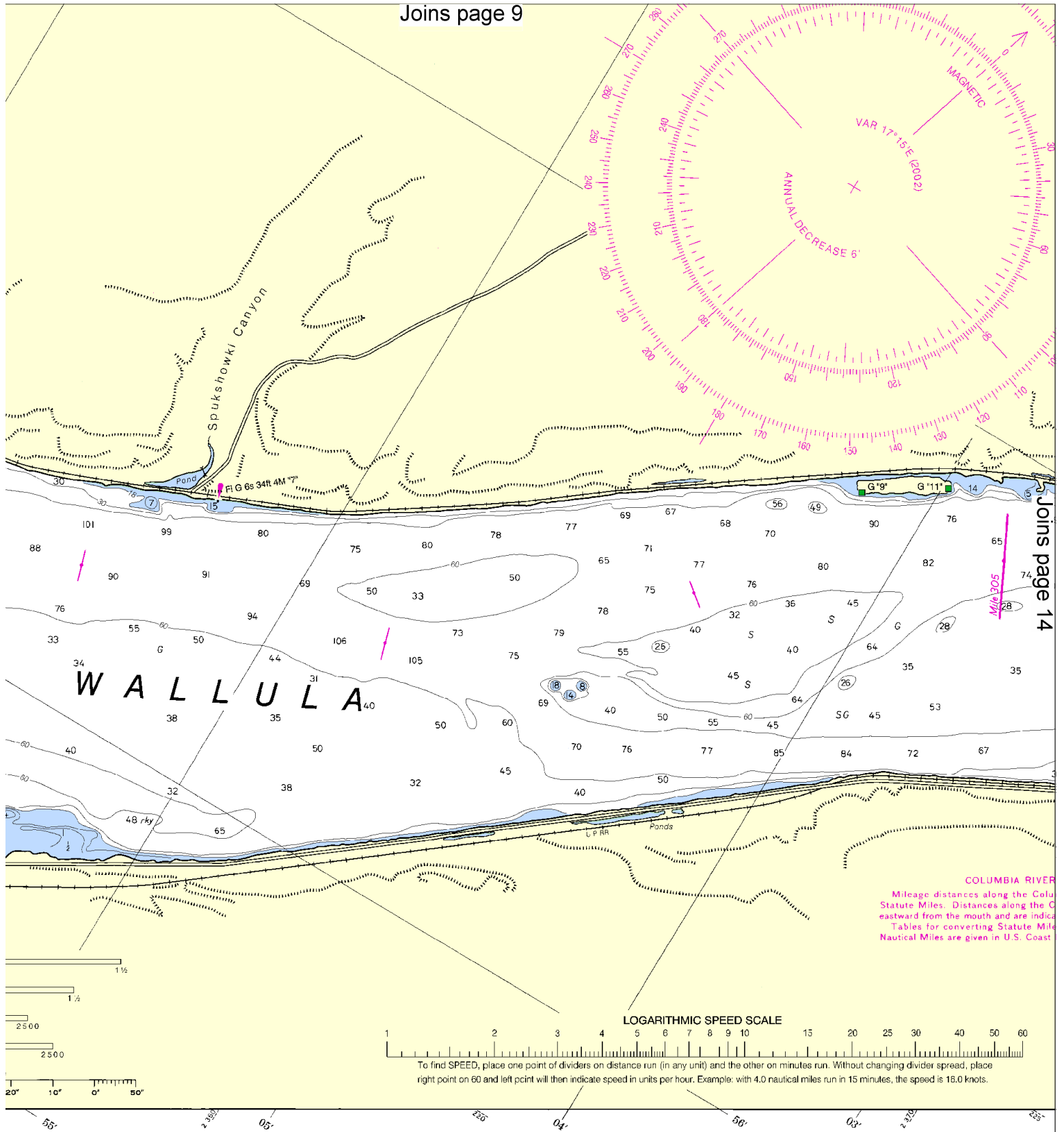
12

Printed at reduced scale.

SCALE 1:20,000
Nautical Miles

See Note on page 5.





Joins page 14

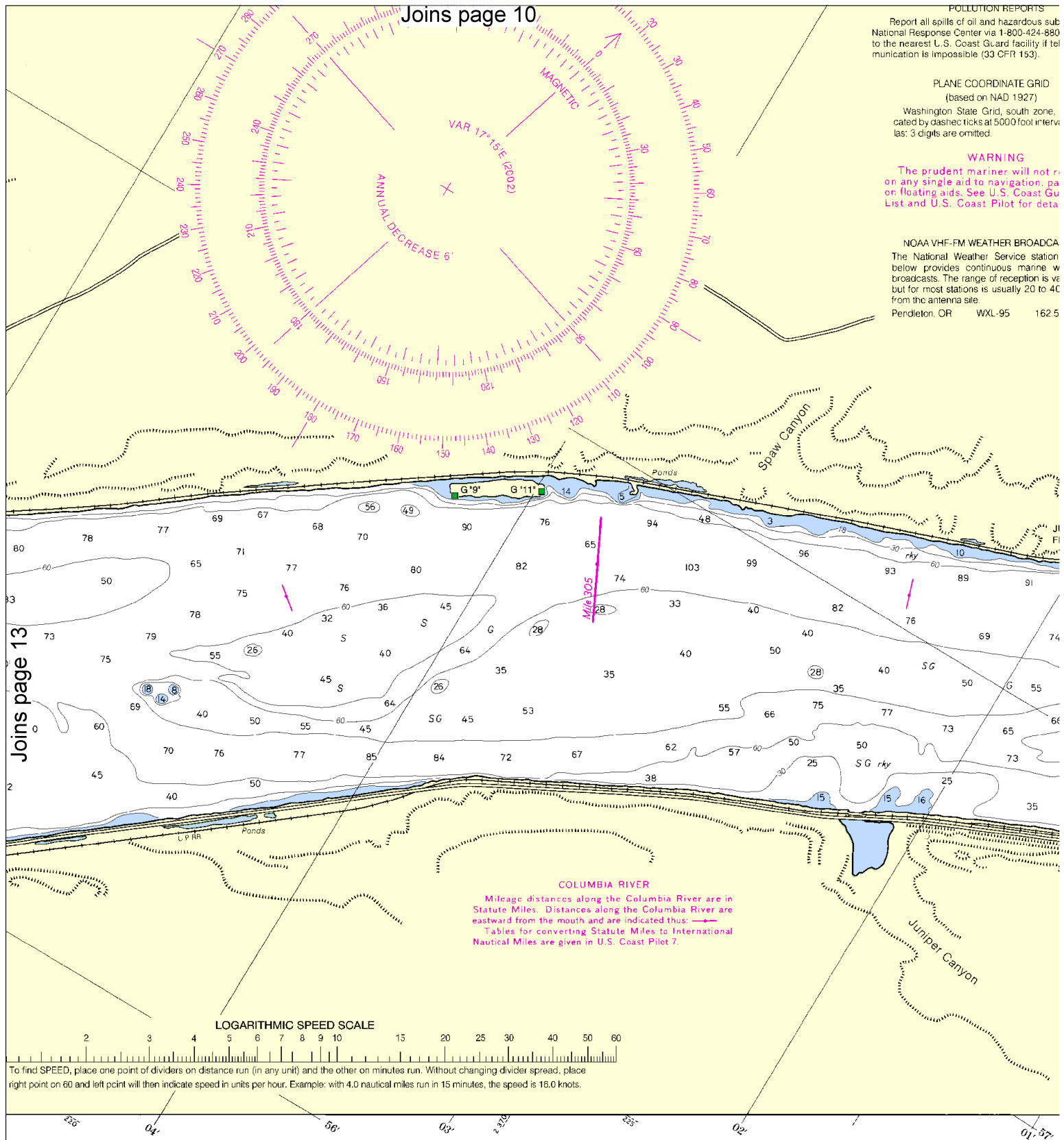
Joins page 10

POLLUTION REPORTS
Report all spills of oil and hazardous substances to the nearest U.S. Coast Guard facility if telecommunication is impossible (33 CFR 153).

PLANE COORDINATE GRID
(based on NAD 1927)
Washington State Grid, south zone, indicated by dashed ticks at 5000 foot intervals; 3 digits are omitted.

WARNING
The prudent mariner will not rely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard List and U.S. Coast Pilot for details.

NOAA VHF-FM WEATHER BROADCAST
The National Weather Service station below provides continuous marine weather broadcasts. The range of reception is variable but for most stations is usually 20 to 40 miles from the antenna site.
Pendleton, OR WXL-95 162.5



Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

distances to the
802 (toll free), or
telephone com-

2, is indi-
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particularly
Guard Light
tails.

CASTS
on listed
weather
variable,
40 miles

1.55 MHz

Joins page 11

F fixed
F flashing

MICRO TR microwave tower
Mkr marker

R red
Ra Ref radar reflector
R Bn radiobeacon

W white
WHIS whistle
Y yellow

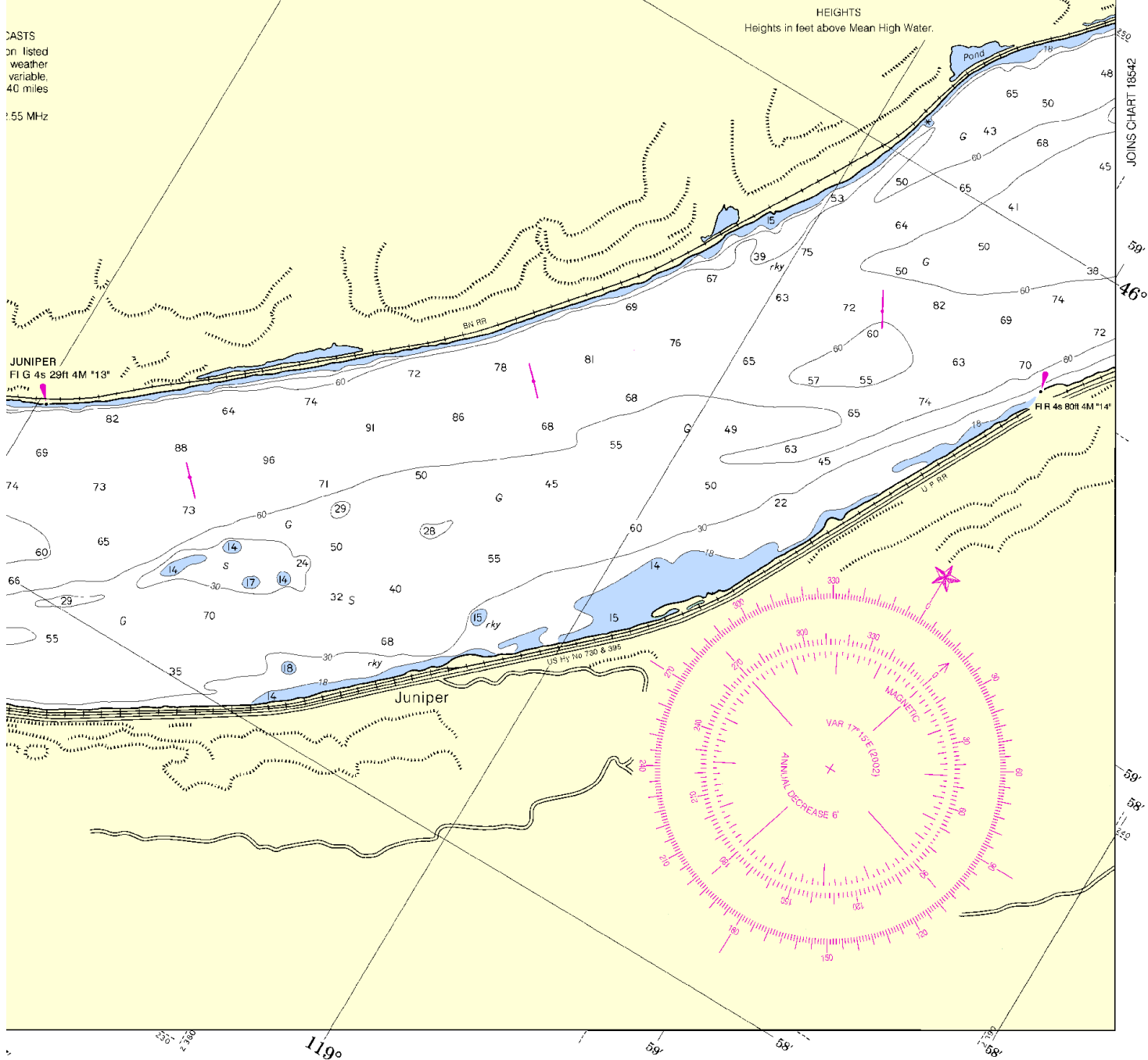
Bottom characteristics:
Bld boulders
bk broken
Cy clay
Co coral
G gravel
Gr grass
gy gray
h hard
M mud
Oys oysters
Rk rock
S sand
so soft
Sh shells
sy sticky

Miscellaneous:
AUTH authorized
ED existence doubtful
21 Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

Obstr obstruction
PA position approximate
PD position doubtful
Rop reported
Subm submerged

CAUTION
Temporary changes or defects in aids to
navigation are not indicated on this chart. See
Local Notice to Mariners.

HEIGHTS
Heights in feet above Mean High Water.



Columbia River, McNary Dam to Juniper
SOUNDINGS IN FEET - SCALE 1:20,000



NSN 7642014011621
NIMA REFERENCE NO. 18XHA18541



18541

15

EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.

Coast Guard Search & Rescue – 206-220-7001

Coast Guard Portland – 503-240-9301

Commercial Vessel Assistance – 1-800-367-8222

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S., including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENC[®]) – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNC[™]) – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts[™] – BookletCharts[™] are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts[™] – PocketCharts[™] are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot[®] – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to <http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm>.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.